

**We claim:**

1. A method, comprising:
  - (a) incubating a reaction mixture comprising:
    - (i) a sample nucleic acid obtained from a biological sample suspected of containing a TIGR nucleic acid sequence,
    - (ii) a nucleic acid polymerase,
    - (iii) one or more extension primers that specifically bind to said TIGR nucleic acid sequence if present, and that, when extended by one nucleotide at the 3' end, comprise a nucleotide indicative of one or more preselected polymorphisms in said TIGR nucleic acid sequence, and
    - (iv) one or more labeled ddNTPs,under conditions such that, in the presence of said TIGR nucleic acid sequence, said extension primer(s) are distinctively labeled by addition of one of said labeled ddNTP(s) to the 3'-end of said detection primer, to generate a labeled nucleic acid corresponding to one of said preselected polymorphism(s); and
  - (b) detecting a signal from said labeled nucleic acid, wherein said signal is related to a TIGR genotype present in said sample.
2. The method of claim 1, wherein said sample nucleic acid is obtained by amplification of nucleic acid in said biological sample.
3. The method of claim 2, wherein nucleic acid in said biological sample is amplified by a polymerase chain reaction.
4. The method of claim 3, wherein nucleic acid in said sample is amplified using one or more amplification primer sequences selected from the group consisting of SEQ ID NOS:5-8



selecting said treatment regimen to be compatible with a TIGR genotype of said subject identified by the method of claim 1.

17. An oligonucleotide consisting essentially of a sequence selected from the group consisting of SEQ ID NOS: 1-8.

18. The oligonucleotide of claim 15, wherein said oligonucleotide is substantially pure.

19. A kit, comprising:

one or more extension primers consisting of an oligonucleotide 17-50 bases in length, comprising at the 3' end a sequence selected from the group consisting of SEQ ID NOS: 1-4; and

instructions for performing a method using said one or more extension primers to perform said assay.

20. The kit of claim 19, wherein said extension primer(s) are selected from the group consisting of SEQ ID NOS: 1-4.

21. The kit of claim 17, further comprising one or more amplification primers having sequences selected from the group consisting of SEQ ID NOS: 5-8.

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